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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/616,453	07/08/2003	Victor B. Kley	020921-001612US	1054
20350	7590 06/15/2004		EXAM	INER
TOWNSEND AND TOWNSEND AND CREW, LLP			KALIVODA, CHRISTOPHER M	
TWO EMBARCADERO CENTER EIGHTH FLOOR SAN FRANCISCO CA 94111-3834		ART UNIT	PAPER NUMBER	
		2881		

DATE MAILED: 06/15/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/616,453	KLEY, VICTOR B.			
Office Action Summary	Examiner	Art Unit			
	Christopher M. Kalivoda	2881 Aw			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply 1 If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on July 8	<u>3, 2003</u> .				
2a) ☐ This action is FINAL . 2b) ☒ This	action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	33 O.G. 213.			
Disposition of Claims					
4) Claim(s) 1-90 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-90 are subject to restriction and/or expending the application.					
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the objected to by the Examine 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the lidrawing(s) be held in abeyance. See ion is required if the drawing(s) is object.	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati ity documents have been receive ı (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

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DETAILED ACTION

Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1 8, 25 52, and 88 90 are drawn to a scanning probe microscope system, classified in class 250, subclass 306.
- II. Claims 9 24 are drawn to a Graphical User Interface, classified in class345, subclass 700.
- III. Claims 53 87 are drawn to a microstructured force balance, classified in class 73, subclass 105.

The inventions are distinct, each from the other because of the following reasons: Inventions I and II and III are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case, the three inventions have different forms, functions and modes of operation and accordingly are classified in different classes and subclasses.

2. Should Applicant select Invention I, the claims are further restricted because this application contains claims directed towards the following patentably distinct species of the claimed invention:

Group I is drawn to claims 1-4 that claim an SPM system for making modifications to an object comprising an SPM probe for making the modifications, a positioning system and a controller to control the positioning system such that

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modification of the object occurs and the particulate material is removed by a sweeping motion.

Group 2 is drawn to claims 5-8 that claim an SPM system comprising an SPM probe for making modifications to an object, a positioning system and a controller to control the positioning system simultaneously in the X, Y and Z directions.

Group 3 is drawn to claims 25-39 that claim an SPM system for inspecting and modifying an object comprising SPM probes for inspection and SPM probes for modification, inspection components to inspect the object and generate results and modification components to modify the object based on the inspected results.

Group 4 is drawn to claims 40-52 that claim an SPM probe comprising an SPM tool with a cantilever and tip, a base with upper and lower surfaces surrounding the tool, a tip activation apparatus to position the tip above and below the lower surface for selectively making SPM measurements or SPM modifications and protection from damage when deactivated and components to make SPM measurements or modifications when the tip is activated.

Group 5 is drawn to claim 88 that claim an SPM probe comprising a base with an aperture, SPM tool connected to the base and within the aperture, components to make SPM measurements or SPM modifications, a vacuum source and a positioning system.

Group 6 is drawn to claims 89-90 that claim an SPM probe for delivering fluid to an object, the probe comprising a tip with a capillary and a microstructured pump.

3. Should Applicant select Invention II, the claims are further restricted because this application contains claims directed towards the following patentably distinct species of the claimed invention:

Group I is drawn to claims 9-17 that claim a graphical user interface comprising a surface image generator to generate a base 3-D image, an augmentation data generator to generate and an augmented image generator to generate augmented image data representing a 3-D image of the surface augmented by the augmentation.

Group II is drawn to claims 18-24 that claim a graphical user interface comprising a surface image generator to generate first and second 3-D images and an overly image generator to overlay the two images and display the results.

4. Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claims are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim

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is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

- 5. Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).
- 6. Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.
- 7. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

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Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher M. Kalivoda whose telephone number is (571) 272-2476. The examiner can normally be reached on Monday - Friday (8:30 - 5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John R. Lee can be reached on (571) 272-2477. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

9. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chris Kalivoda

AU 2881 June 8, 2004 Nikita Wells
PRIMARY EXAMINER

06/09/04